

Greetings,

The following March emailing includes additional information and a schedule for the Great Moonbuggy Race. Please let us know if we may help as you make your final plans and preparations.

Thanks

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Frank Brannon, Technical Coordinator

I. INFORMATION NEEDED:

Many of you have done so, but a reminder to contact Frank Brannon, frank.brannon@msfc.nasa.gov, by March 24 regarding:

1. The date and approximate time of arrival to Huntsville
2. The date and approximate time of departure from Huntsville
3. Number of additional visitors who will be purchasing the \$5.00 Thursday-Sunday tickets. (Do not include the six registered team members and the team advisor.) These tickets will be available for purchase during team registration hours. All visitors accompanying the team must report to the **Visitors' Registration** table to receive proper **ID badges**.
4. Let us know if you be shipping your buggy to the US Space & Rocket Center for the race? (Mailing address included on Great Moonbuggy Race website.)
5. For college teams not bringing an advisor, please designate a lead contact.
6. **If your team roster is complete, you can save a little time at registration in Huntsville and complete the attached file.**

Race Planning:

1. We will present each team with a plaque, so please plan to remain for your division's Award Ceremony. Ceremonies will be held under the U.S. Space Shuttle shortly after the last buggy run.
2. **In order to reduce confusion, please have only one person (advisor or team lead) interact with the Registration personnel at registration and during the race.**
3. **Safety meeting for all official teams members at 6:00 p.m. the evening before your race.**

II. EQUIPMENT:

Equipment that will be available in the Pits Repair includes:

MIG Welding Machine
TIG Welding Equipment
Plasma Cutter

Tool Box with wrenches/screwdrivers, etc.
Grinding Tool
Cutting Tool
Drill (Cordless)
Weld fillers for various AI/SS and carbon steel alloys
Scrap aluminum, carbon steel, stainless steel
Nylon wire ties (various sizes), vice (mounted on a table)
Hack saw, nuts, bolts, washers, air pump
And of course,
Duct Tape
*Note that equipment will be shared among all teams.

III. SAFETY

Please note the following as NASA Marshall endeavors to improve the safety conditions of the event:

1. Safety meeting for all official teams members at 6:00 p.m. the evening before your race.

2. Please review all rules for the race, and especially in regard to proper clothing, seat restraints and the guarding/padding of sharp edges and protrusions. Current rules state that after assembly judging, and before all starts, the buggies, and drivers, will be reviewed for safety. This will be formally conducted this year in the form of a Pre-Condition judging review. One must pass this review to be allowed to run the course.

3. In order to provide safe passage on the course, judges will be given the following responsibility: A team must be pulled from the course if there is a loss of blood or body fluids and/or the judge deems one or both team members unable to safely continue the course. The buggy will be moved to the side of the course so that any subsequent buggy will not be affected.

4. In order to provide safe work habits in the pits area, please be aware that volunteers will be looking for the following in the pits:

Proper use of personal protective equipment (PPE), i.e., Safety Glasses, hearing protection, etc., and personal protective clothing (PPC) i.e., coveralls, gloves (**with fingers**), safety shoes, etc.; Proper equipment and work support (safety stands, blocks/chocks, etc.); Electrical is properly grounded and ground fault interrupters (GFI) are used as necessary; Welding activities need the proper slag curtains and PPE. Ensure there are no sharp edges, protrusions or other unsafe conditions in moonbuggy construction; Ensure vehicle crews report to final pre-condition inspection with their required safety equipment (helmet, gloves, etc.).

IV. AWARDS

Please note the deadlines and additional materials for all optional awards. These are listed at <http://moonbuggy.msfc.nasa.gov/compete.html> and include the Design Competition, Most Unique Award, Most Improved Award, and the System Safety Award.

V. SCHEDULE & RACE RUN ORDER:

**NASA Marshall Great Moonbuggy Race
U.S. Space & Rocket Center**

Thursday, April 6, 2006

2:00 p.m.-5:00 p.m. Team Registration (All Teams) & Pits Area Open (High School Teams)
3:00 p.m. Course available for Review
6:00 p.m. High School Safety Meeting (Advisor & Team Leader)

Friday, April 7, 2006 High School Division Races (38 Registered Teams)

7:00 a.m. US Space & Rocket Center gates open
7:15 a.m.-4:00 p.m. Team Registration (All Teams)
7:20 a.m. Opening Ceremony
7:30 a.m. Moonbuggies in place in pits-AIAA Design Award Judging

8:15 a.m. Start of pre-race qualifying
8:45 a.m.-12:45 p.m. High School-First Run (estimate*)
11:30a.m.-1:00 p.m. Lunch- Moonbuggy high school teams (six members & advisor) & Race Officials

1:00-4:00 p.m. High School- Second Run*
High School Awards immediately after final score tallies
Friday evening: Pits area open to College Teams
6:00 p.m. College Safety Meeting (Advisor & Team Leader)

Saturday, April 8, 2006 College Division Races (22 Registered Teams)

7:00 a.m. US Space & Rocket Center gates open
8:15 a.m.-9:00 a.m. Team Registration
8:30 a.m. Moonbuggies in place in pits-AIAA Design Award Judging

9:15 a.m. Start of pre-race qualifying
9:30 a.m.-12:30 p.m. College-First Run (estimate*)
11:30 a.m.-1:00 p.m. Lunch- Moonbuggy college teams (six members & advisor) & Race Officials

1:00 p.m.-3:30 p.m. College- Second Run*

College Awards immediately after final score tallies

***NOTE THAT ALL RUN TIMES ARE ESTIMATES. SECOND RUN WILL
OCCUR SHORTLY AFTER THE FIRST RUN IS COMPLETE**

2006 Race Run Order

| High School Division | College Division |
|--|---|
| 1. Autauga County Technology Center (AL) I | 40. Alabama A&M University |
| 2. C.E. King High School/AFJROTC (TX) I | 41. Cameron University |
| 3. Autauga County Technology Center (AL) II | 42. Christian Brothers University |
| 4. C.E. King High School/AFJROTC (TX) II | 43. Middle Tennessee State University I |
| 5. Calloway County High School (KY) | 44. Ozarks Technical Community College |
| 6. Carlisle County High School (KY) | 45. Middle Tennessee State University II |
| 7. Columbia Academy (TN) | 46. Pittsburg State University I |
| 8. DeSoto High School (KS) I | 47. Purdue University Calumet |
| 9. Erie High School (KS) I | 48. Pittsburg State University II |
| 10. DeSoto High School (KS) II | 49. Purdue University, IUPUI (Indianapolis) |
| 11. Erie High School (KS) II | 50. Rochester Institute of Technology |
| 12. Fairhope High School (AL) I | 51. Southern Illinois University I |
| 13. Floresville High School (TX) | 52. Tennessee Technological University |
| 14. Fairhope High School (AL) II | 53. Southern Illinois University II |
| 15. Flinthills High School (KS) | 54. University of Alabama, Birmingham |
| 16. Franklin County High School (TN) 1 | 55. University of Evansville |
| 17. Graves High School (KY) I | 56. University of Puerto Rico, Humacao I |
| 18. Franklin County High School (TN) II | 57. University of Tennessee, Knoxville I |
| 19. Graves High School (KY) II | 58. University of Puerto Rico, Humacao II |
| 20. Huntsville Center for Technology I | 59. University of Tennessee, Knoxville II |
| 21. Huntsville High School | 60. University of Vermont |
| 22. Huntsville Center for Technology II | 61. Youngstown State University |
| 23. Indianapolis Public School (IN) I | |
| 24. Madison County Career Center (AL) I | |
| 25. Indianapolis Public School (IN) II | |
| 26. Levy County High Schools (Viewing Only) | |
| 27. Madison County Career Center (AL) II | |
| 28. Memphis Catholic High School (TN) | |
| 29. Murray High School (KY) | |
| 30. New Century Technology High (AL) | |
| 31. New Orleans Area Schools (Exhibition Only) | |
| 32. Obion County Central High (TN) I | |
| 33. Pana Senior High School (IL) I | |
| 34. Obion County Central High (TN) II | |
| 35. Pana Senior High School (IL) II | |
| 36. Pinewood Preparatory School (SC) | |
| 37. Simon Kenton High School (KY) | |
| 38. Thomas Jefferson High School (VA) | |
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